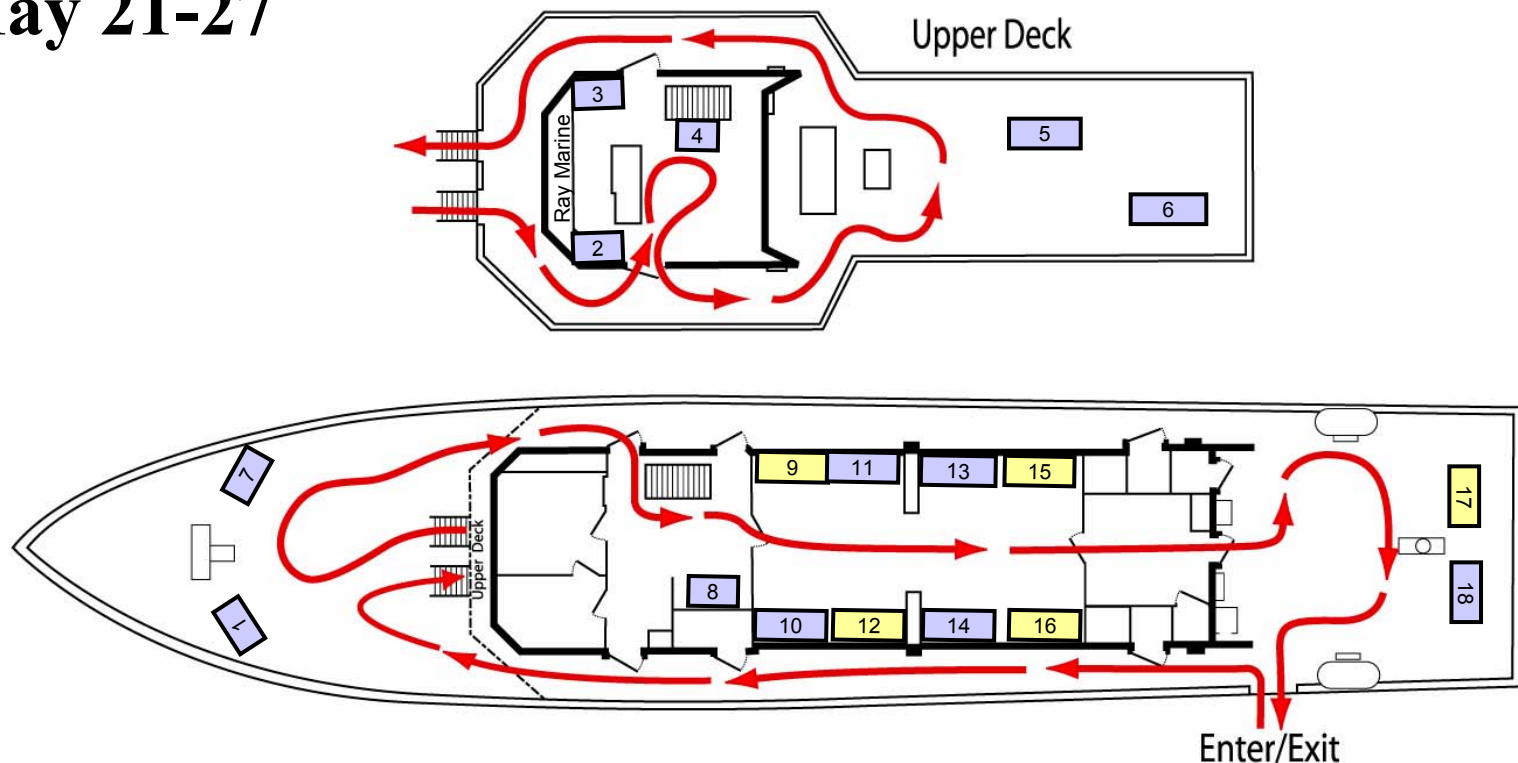


# New York Fleet Week 2003

## May 21-27



1. Surf Zone Crawler
2. Survivable Automation Technology \*\*
3. Remote Monitoring of Spaces\*\*
4. Remote Machinery Monitoring\*\*
5. Marine Corps Warfighting Lab
6. Dragon Warrior with MicroStar Sensors
7. Silver Fox-UAV

8. Omni-view Camera\*\*
9. NOMAD Retinal Projection System
10. Remote Paint Inspection System
11. ONR – Tech Solutions
12. Quik-Clot/Oxy Generator
13. Digital MP Face Recognition
14. Advanced Hull Forms

15. Cooled Armor Vest
16. Chemical Sensors
17. REMUS-AUV
18. CETUS-UUV

*\*\*Denotes installed technology*  
(YPPNYDeckPlan2003-Final Revised 5/14/031600)

# 2003 Afloat Lab Technology Displays

## **#1 Surf Zone Crawler**

Mine-seeking crawler designed for the dangerous surf zone helped searched caves in Afghanistan during Operation Enduring Freedom.

## **#2 Survivable Automation Technology**

Communications network can route around breaks. Multiple shipboard systems can remain functional even when a portion of the links are damaged.

## **#3 Remote and Mobile Monitoring of Shipboard Spaces**

Mobile monitor peeks into remote nooks and crannies. Routine patrols or remote equipment can be monitored from any location on the vessel with personal digital assistants.

## **#4 Remote Machinery Monitoring**

Sensors monitor changes in vibration, temperature, voltage, current and electrical frequency on the ship's diesel generators, to help crew predict failures—saving time and money.

## **#5 Marine Corps Warfighting Lab**

Prepares for the future battle. Featured technologies include: Dragon Eye unmanned aerial vehicle, Integrated Intra Squad Radio, Urban Breaching Kit, the Expeditionary First Aid Kit, Dragon Runner mobile ground sensor, P90 Submachine Gun, and the Auto Lightweight Grenade Launcher.

## **#6 Dragon Warrior with MicroStar Sensors**

Sensor payload lets mini-helicopter see. Long range color camera and infrared sensor provide daylight surveillance and night time observation.

## **#7 Silver Fox Unmanned Aerial Vehicle**

UAV keeps eye on whales—and enemies. Designed to monitor migrating whales, Silver Fox can carry and transmit still photographs as well as video. Marines relied on the vehicle to see over the next hill during Operation Iraqi Freedom.

## **#8 360° Omniview Camera**

Camera captures complete circular view. Omni directional camera monitors a complete 360° image simultaneously — ideal for periscopes and force protection.

## **#9 Nomad Retinal Projection Glasses**

Nomad is a high-resolution daylight readable, see-through display that "paints an image" directly onto the eye. With Nomad, a computer display is superimposed over what the eye sees.

## **#10 Remote Tank Inspection Systems**

The Remotely Operated Paint Inspector can swim and hover in tanks, checking their walls for damage or corrosion. The Insertable Stalk Imaging System can be used for mapping damage and tracking changes.

## **#11 ONR – Tech Solutions**

Tech Solutions is focused on rapidly delivering needed technology to the Fleet/Force. Sailors and Marines can use the Tech Solutions web site to make suggestions for technical solutions.

## **#12 QuikClot & Portable Oxygen Generation System**

QuikClot is a granular material you simply pour on a wound to stop bleeding quickly. The Portable Oxygen Generation System pulls oxygen out of the air and delivers it under pressure to a patient—eliminating the need for dangerous oxygen canisters.

## **#13 Digital MP Wearable Computing System**

Showcasing face recognition software developed in part through support from the Office of Naval Research, this wearable system allows for live video feeds directly to the field for face recognition, navigation, data and communications.

## **#14 Advanced Hull Forms**

The Office of Naval Research supports development of new ship designs. The X-Craft is being tested for use in the littoral (coastal) environment and SeaSlice provides a stable platform even at high speeds.

## **#15 Cooled Armor Vest**

This personal air conditioning unit pumps cool air directly into an aviator's flight suit, and even provides some ballistic protection.

## **#16 Chemical Sensors**

These handheld devices can alert sailors and Marines to the presence of dangerous chemicals.

## **#17 REMUS Autonomous Underwater Vehicle**

REMUS was designed to conduct oceanographic sampling, but was deployed in Operation Iraqi Freedom to help locate mines.

## **#18 CETUS Unmanned Underwater Vehicle**

This small, cost-effective vehicle was designed to seek out mines. It's easy to deploy and can automatically alter its course to adjust for changes in current.

# Visit us at: [www.onr.navy.mil](http://www.onr.navy.mil)